INTEGRATED ELECTROMAGNETIC INTERFERENCE FILTERS AND FEEDTHROUGHS

Abstract

An assembly integrating commercially available capacitors into filtered feedthroughs. A feedthrough assembly comprises a plurality of Input/Output (I/O) conductors, wherein the I/O conductors pass through a hermetic seal such that a first end of the I/O conductors reside on a non-hermetic side of the hermetic seal and a second end of the I/O conductors reside on a hermetic side of the hermetic seal, a printed circuit interconnect substrate residing on the hermetic side of the hermetic seal, and a plurality of ceramic chip capacitors mounted on the printed circuit interconnect substrate, wherein a first end of each capacitor is connected via the interconnect to the second end of an I/O conductor and a second end of each capacitor is connected via the interconnect to a constant voltage level.

"Express Mail" mailing label number: <u>EV332571183US</u>

Date of Deposit: July 31, 2003

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